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WHAT IS CLAIMED IS:

- 1 A light-emitting apparatus comprising:
- 2 a transparent base made of an inorganic material;
- 3 a first and a second bonding pad formed on the base;
- 4 a GaN semiconductor light-emitting device having a first
- and a second electrode on one side thereof; 5
- 5 a first and a second wire which connect said first bonding
- 7 pad to said first electrode and said second bonding pad to said second
- 8 electrode, respectively;
- 9 a transparent adhesive layer which fixes the transparent ıД 10 substrate of said semiconductor light-emitting device to a first N 11 surface of said base;
 - a transparent resin which encapsulates said base, said light-emitting device, said first and second wires, said first and second lead frames, and said adhesive layer,
- 14 15 a first and a second lead frame to which said transparent 16 base is fixed so that the substrate of said semiconductor light-
 - 1Iemitting device may face the dominant light emitting direction of
 - 18 said light-emitting apparatus, and said first and second bonding pads
 - being electrically connected to said first and second lead frames, 19
 - 20 respectively.

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- 1 2. A light-emitting apparatus according to claim 1, wherein
- said first bonding pad and said second bonding pad are provided on 2
- Ĵ said first surface of said base, said first lead frame has a first

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- mount facing said dominant light emitting direction, said second lead 4
- 5 frame has a second mount facing said dominant light emitting
- 6 direction, said first bonding pad is fixed onto said first mount with
- 7 an electrical connection, and said second bonding pad is fixed onto
- said second mount with an electrical connection. 8
- 1 A light-emitting apparatus according to claim 1, wherein
- each of said first and second electrodes is a light-reflecting and 2
- 3 electrically conducting metal layer.
- A light-emitting apparatus according to claim 1, wherein
- said base is made of a material selected from the group consisting
- of a SiO,, sapphire and borosilicate glass.
- 5. A light-emitting apparatus according to claim 2, wherein
- said base is made of a material selected from the group consisting
- of a SiO2, sapphire and borosilicate glass.
 - 1 A light-emitting apparatus according to claim 3, wherein
 - 2 said base is made of a material selected from the group consisting
 - of a SiO2, sapphire and borosilicate glass. 3
 - 1 7. A light-emitting apparatus according to claim 2, wherein
 - 2 said GaN semiconductor light-emitting device is fixed on said first
- 3 surface of said base between said first and second bonding pads.

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- 8. A light-emitting apparatus according to claim ?, wherein 1
- 2 said base is rectangular in its plane view.
- 1 9. A light-emitting apparatus according to claim 7, wherein
- 2 said first and second bonding pads are formed substantially in
- parallel with the long side of said first surface. 3
- 1 10. A light-emitting apparatus according to any one of claims
- 1 to 9, wherein said base has dispersed therein a fluorescent
- material.
- 11. A light-emitting apparatus according to any one of claims
- 1 to 9, wherein said base is defined by a plurality of layers, and
- at least one of said layers contains a fluorescent material.
- 12. A light-emitting apparatus according to claim 10, wherein
- said base is defined by a plurality of layers, and at least one of
- 3 said layers contains a fluorescent material.
- 1 A light-emitting apparatus according to claim 1, wherein
- the first and second bonding pads are formed on a diagonal line of 2
- the first surface of the base.
- 1 14. A semiconductor light-emitting apparatus of flip chip
- bonding type, comprising: 5

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- 3 a transparent base made of an inorganic material, which has
- on one side thereof a first bonding pad and a second bonding pad to 4
- be connected to a pair of lead frames with a space between the first 5
- 6 and the second bonding pads where a semiconductor light-emitting
- element is to be fixed. 7
- 1 15. A semiconductor light-emitting apparatus of flip chip
- bonding type as claimed in claim 14, wherein the inorganic material 2
- 3 is selected from the group consisting of a SiO2, sapphire and
- borosilicate glass. 4
- 16. A semiconductor light-emitting apparatus of flip chip 1
- bonding type as claimed in claim 14, said transparent base is 2
- 3 rectangular in its plane view.
- 1 17. A semiconductor light-emitting apparatus of flip chip
- 2 bonding type as claimed in claim 14, wherein the inorganic material
- 3 has a fluorescent material dispersed therein.
- 1 18. A semiconductor light-emitting apparatus of flip chip
- bonding type as claimed in claim 14, said transparent base a plurality 2
- 3 of layers, and at least one of the layers contains a fluorescent
- material.

- 1 19. A pair of lead frames for use in a light-emitting apparatus
- 2 of flip chip bonding type comprising:
- 3 a transparent base having on a first surface thereof a first
- 4 and a second bonding pad and
- 5 a GaN semiconductor light-emitting device fixed on the first
- surface thereof. б
- 7 wherein a first lead frame has a first mount which faces
- the dominant light emitting direction of the light-emitting 8
- 9 apparatus and on which the first bonding pad is to be fixed, and a
- 10 second lead frame has a second mount which faces the dominant light
 - emitting direction and on which the second bonding pad is to be fixed.
 - 20. A pair of lead frames according to claim 19, wherein the first lead frame has a first projection on which diffused light from the light-emitting device is to be reflected toward the dominant
- light-emitting direction, and the second lead frame has a second
 - projection on which diffused light from the light-emitting device
 - is to be reflected toward the dominant light-emitting direction.